FEOFANOV, Aleksey Feofanovich; SVERDLOV, A.I., kand.tekhn.nauk, red.

[Structural engineering for airplane structures.] Stroitel'naia
mekhanika aviatsi nnykh konstruktsii. Moskva, Mashinostroenie,
mekhanika aviatsi nnykh konstruktsii institut ireni Sergo Ord1964. 283 p. (Moscow. Aviatsionnyl institut ireni Sergo Ord2honikidze. Trudy, no.160)

(MIRA 17:10)

ACC NR

AR6035264

SOURCE CODE: UR/0169/66/000/009/V015/V015

AUTHOR: Sverdlov, A. I.

TITLE: Distribution of hydrochemical elements in the region of the Faeroe-Icelandic strait during November—January 1963—1964

SOURCE: Ref. zh. Geofizika, Abs. 9V129

REF SOURCE: Sb. Materialy rybokhoz. issled. Sev. basseyna. Vyp. 5. Murmansk, 1965, 91-98

TOPIC TAGS: hydrology, hydrographic survey, hydrochemistry, salinity, molecular oxygen, phosphate, nitrate, hydrography/Faeroe-Icelandic strait

ABSTRACT: During the period November—January 1963—1964 three microsurveys at 30 stations per month were conducted in the frontal zone from aboard the vessel "Akademik Berg". Temperature, salinity, O₂, phosphates, and nitrates were determined at 0, 50, 100, 200, 300, and 500 m. Hydrochemical elements were determined using standard methods. The distribution of O₂, phosphates, and nitrates is discussed. It is pointed out that the relative concentrations.

Card 1/2

UDC: 551. 464. 32(261+491)

PREOVED FOR RELEASE: 08/24

SVERDLOV, A. K., podpolkovnik meditsinskoy sluzhby

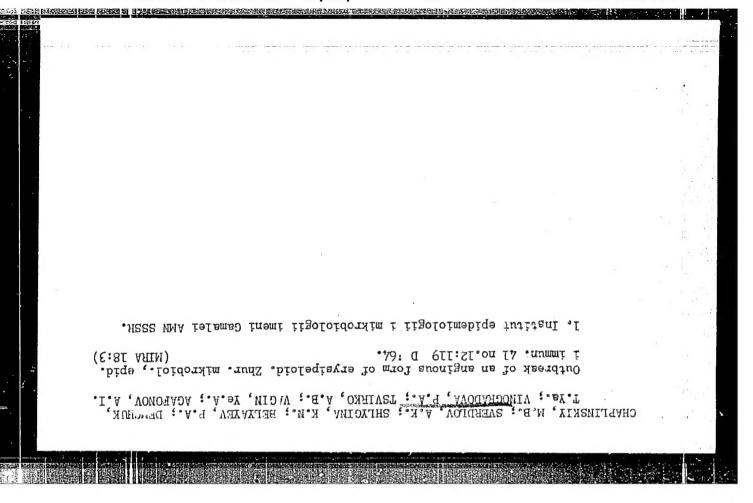
Allergic reaction following use of streptomycin. Voen.-med.

Zhur. no.12:72 D'61.

(ALLERGY) (STREPTOMYCIN)

POPCV, K.A., polkovnik meditsinskoy sluzhby; SVERDLOV, A.K., podpolkovnik meditsinskoy sluzhby

Dispensary treatment and expert examination of servicemen following Botkin's disease. Voen.-med.zhur. no.11:20-22 '64. (MIRA 18:5)



SVE DLOV, A.P., starshiy inzh.

"Operations and production planning in departments of the welding and assembly trust." Stroi. truboprov. 7 no.4:27 Ap '62.

(MIRA 15:5)

1. Planovo-ekonomicheskiy etdel Glavnogo upravleniya po gazifikatsii gorodov SSSR.

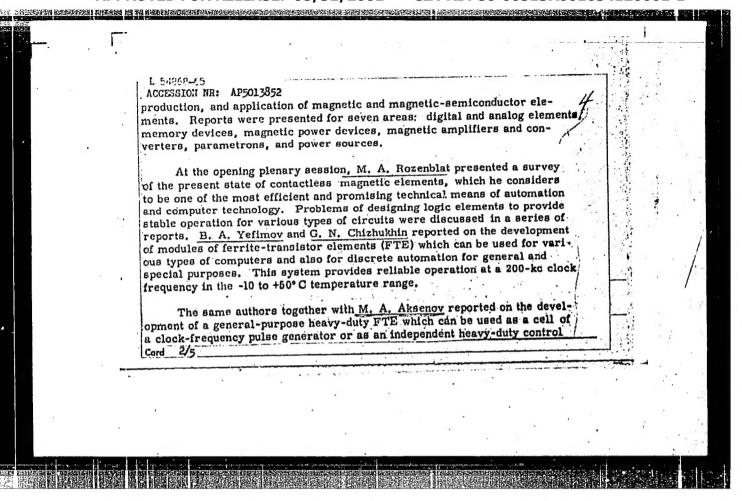
(Pipelines)

SUKIASOV, S.M.; SVERDLOV, A.P.

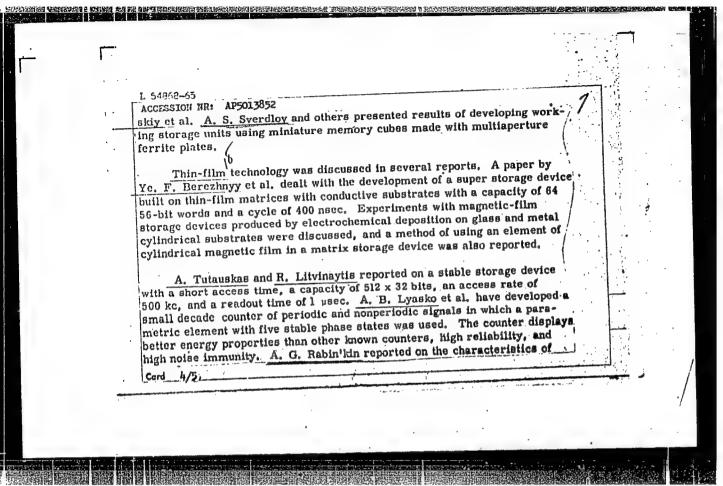
Use computer technology in planning pipeline construction. Stroi.
truboprov. 9 nc.3:28-29 Mr 164. (MIRA 18:2)

1. Gosudarstvennyy proizvodstvennyy komitet po gazovoy promyshlennosti SSSR.

ACCESSION NR: AP501352 UR70103/65/026/005/038/0942 AUTHOR: Boyarchonkov, H. A. TITLE: All-Union Conference on magnetic elements of automation and computer S technique SOURCE: Avtomatika i telemekhanika, v. 26, no. 5, 1965, 938-942 TOPIC TAGS: electric engineering conference, magnetiom conference, component, automation equipment, automation, electronic data processing ABSTRACT: The Ninth All-Union Conference on Magnetic Elements of Automation and Computer Technology, held in Kaunas from 7 to 10 September 1964, was organized by the National Committee of the USSR on Automatic Control, the Institute of Power and Electrical Engineering of the Academy of Sciences, Lithuanian SSR, the Lithuanian Scientific and Technical Society of the Instrument Building Industry, and the Institute of Automation and Telemechanics of the Main Committee on Instrument Building, Means of Automation, and Control Systems under Gospian and the Academy of Sciences USSR. Over 450 participants discussed some 90 reports concerning the theory, design, Card 1/5		## ASENAV, M.A. L 54368-55 ENT(d)/ENT(m)/EEC(k)-2/ENP(1)/ENP(v)/T/ENP(t)/ENP(h)/EED-2/ // ENT(d)/ENT(m)/EEC(k)-2/ENP(1)/ENP(v)/T/ENP(t)/ENP(h)/ENP(h)/EED-2/ // ENT(d)/ENT(m)/EEC(k)-2/ENP(n)/ENP(n	
TITLE: All-Union Conference on magnetic elements of automation and computer \$\beta\$ technique SOURCE: Avtomatika i telemekhanika, v. 26, no. 5, 1965, 938-942 TOPIC TAGS: electric engineering conference, magnetism conference, computer component, automation equipment, automation, electronic data processing ABSTRACT: The Ninth All-Union Conference on Magnetic Elements of Automation and Computer Technology, held in Kaunas from 7 to 10 September 1964, was organized by the National Committee of the USSR on Automatic Control, the Institute of Power and Electrical Engineering of the Academy of Sciences, Lithuanian SSR, the Lithuanian Scientific and Technical Society of the Instrument Building Industry, and the Institute of Automation and Telemechanics of the Main Committee on Instrument Building, Means of Automation, and Control Systems under Gosplan and the Academy of Sciences USSR. Over 450 participants discussed some 90 reports concerning the theory, design,			
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Control Systems under Gosplan and the Academy of Sciences USSR. Over 450 participants discussed some 90 reports concerning the theory, design, Card 1/5		ment Building Industry, and the Institute of Automation and Telemechanics	
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	accession NR: Ap5013852 element. It is capable of performing command recording or readout of information reaching it in large quantities from a low-power FTE. I. A. Tyumin, B. A. Yefimov, and A. A. Shavrov reported on the development and testing of biax-type logic circuits operating at 1 Mc and performing several logic operations. Advantages cited are: high s/n ratio, about 20; high switching rate, about 2 Mc; and high reliability due to the simplicity of the circuit. Such circuits may also be used in complex logic devices. Additional reports discussed logic circuits using biax-type elements in a working storage device with a nondestructive readout cycle of 10-7 sec and a recording time for new information of several microseconds. L. P. Afinogenov et al. reported on discrete and discrete-analog computer units based on the use of the area of an emf pulse originating in the winding during magnetization reversal in the ferrite. Development of ferrite matrixes which release a voltage pulse at the output with an area proportional to the code supplied at the matrix input was also discussed.
	Problems connected with the development of single-wire memory elements with multiaperture ferrite plates were presented by R. A. Lashev-
	Card 3/5
•	

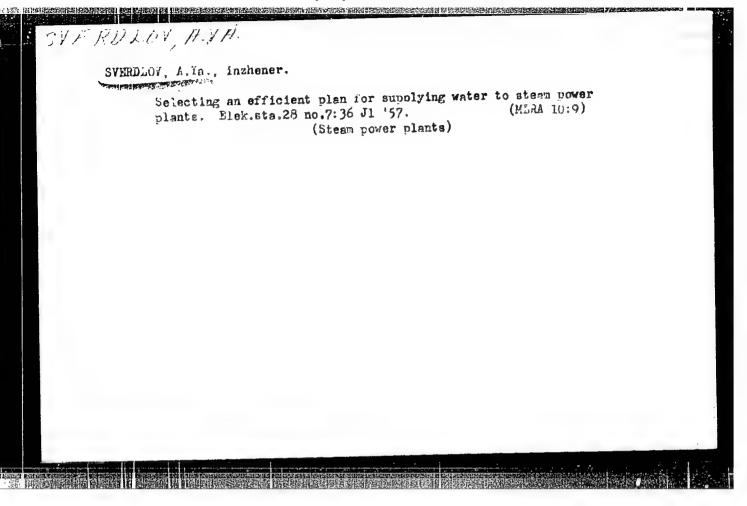


ACCESSION NR: AP5013852 new high-coercivity (5000 oe) alloys of the cobalt-platinum system. Rozenblat et al. discussed the theory and design of magnetic analog ing devices (adder, integrator, multiplier) based on single-stage magnetices using magnetic analog storage. A large number of reports was devoted to the theory and application power magnetic devices. The papers presented by the Gor'kly schologous magnetic devices. The papers presented by the Gor'kly schologous magnetic devices and voltage stability. A. M. Bamdas concerning frequency multipliers and voltage stability. ASSOCIATION: none SUBNITTED: 00 NO REF SOV: 000 OTHER: 000 ATD FI	cation of ol of zers were	
Card 5/5	The second of th	

SVENDECT, A.T., Equitan is go range

Giorious combat record of the flotilla. Mor. abor. 47 no.4:23-26
Ap *CA. (MIRA 18:7)

1. Byvshiy nachal*nik shtaba Azovskoy voyennoy flotilii.



Operation of a pressure-vacuum distillation apparatus. Neftianik (MIRA 14:10)
5 no.2:17-18 F '60.

1. Starshiy operator Permskogo neftepererabatyvayuschego zavoda. (Perm--Petroleum refineries--Equipment and supplies)

ROMANOV, Yu.D., kand.med. nauk; SVENDLOV, B.D.

Infrared photography as a method of detection of the deep collateral vessels of the anterior abdominal wall in disorders of portal circulation. Terap. arkh. 35 no.1:30-34 Ja!63. (MIRA 16:9)

1. Iz 1-y kafedry terapii (zav. - prof. L.M.Rakhlin) Kazanskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni Lenina. (ABDOMEN-BLOOD SUPPLY) (PHOTOGRAPHY, INFRARED) (PORTAL HYPERTENSION)

GUREVICH, I.L.; SVERDLOV, A.Ya.; FILATOVA, Ye.D.

Effect of temperature and pressure on the separation of paraffin-naphthene hydrocarbons in the single-phase mazut evaporation. Khim. i tekh. topl. i masel 10 no.12:15-18 (MIRA 19:1) D '65.

l. Moskovskiy ordena Trudovogo Krasnogo Znameni institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. Gubkina.

SVERDLOV, B.I.

PHASE I BOOK EXPLOITATION

899

Mekhanizatsiya i avtomatizatsiya liteynogo proizvodstva (Mechanization and Automatic Control of Founding Processes) [Leningrad] Lenizdat, 1957. 224 p. 3,000 copies printed.

Ed.: (title page): Sokolov, A.N.; Ed.: (inside book): Yemel'yanova, Ye. V.; Tech. Ed.: Rodchenko, N.I.

This book is intended for engineers and technical personnel working in the founding industries. PURPOSE:

The book presents experience gained by several Leningrad plants in the field of mechanization and automation of metal casting processes. It is stated that in total production of castings the Soviet Union is catching up with the U.S.A., and in production of steel castings the USSR is already leading. Soviet production of castings in 1955 amounted to 11 million tons, 2 million of which were steel castings. No personalities are mentioned. There are 33 references, 29 of which are Soviet, 3 English, and 1 German.

card 1/3

Mechanization and Automatic (Cont.) . 899	
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	AVAILABLE: Library of Congress (TS 233.S6)		
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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654120001-1"

SVERDLOY, D. G.

Injections of vitreous body in treatment of cicatricial medifications. Yest, oft. 29:4, July-Aug. 50. p. 24-6

1. Of the Eye-Prostheses Division (Head-Prof. D. G. Sverdlov), Central Institute of Traumatology and Orthopedics (Director-Homored Worker in Science Prof. N. N. Priorov) of the Kinistry of Public Health USSR.

CIML 19, 5, News, 1950

SVERDLOV, D.G., professor.

Forming the stump of an enucleated eye by transplanting of an elastic plastic material into the Tenon's capsule. Vest. oft.
34 no.4:27-29 Jl-Ag '55. (MLRA 8:10)

1. Is Tsentral'nogo instituta travmatologii i ortopedii Ministerstva zdravookhraneniya SSSR (dir.chlen-korrespondent AMN SSSR prof. M.M.Priorov)

(EYE, surgery, enucleation, arcylic implants into Tenon's capsule) (ACRYLIC RESIES, Tenon's capsule implants in enucleation)

GOLOVANOV, V.D., professor; SVERDLOV, D.G., professor

Accidental enucleation of the eyes. Vop.neirokhir. 20 no.6:50-52
N-D '56.

1. Iz Tsentral'nogo instituta travmatologii i ortopedii Ministeratva zdravookhranentya SSSR.

(EYE, wounds and injuries, traum. enucleation (Rus))

SVERDLOV, D.G., professor

Contact lenses. Oft.zhur. 11 no.1:50-52 156.

(MLRA 9:9)

1. Iz TSentral'nogo instituta travmatologii i ortopedii Ministerstva zdravookhraneniya SSSR. (CONTACT LENSES)

SVERDLOV, D.G., professor (Moskva)

Artificial crystalline lens from acrylate; review of literature.

Vest.oft. 69 no.6;36-39 N-D '56. (MLRA 10:2)

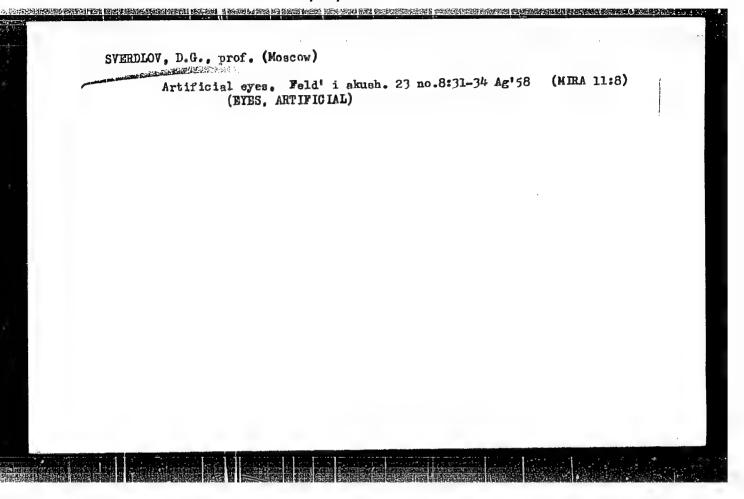
(CRYSTALLINE LENS, artif.

acrylate lens, review)

SYERDIOV. D. 6.

Proathetic devices with acrylate washers for preventing symblepharon. Oft. zhur. 13 no.6:346-348 '58. (MIRA 12:1)

1. Iz Esentral nogo instituta travmatologii i ortopedii Ministerstva zdravookhranentya SSSR. (ZTRILIK -- DISEASES) (ACRYLIC ACID)



Use of radioactive isotopes in the diagnosis of intraocular tumors; review of the literature. Vest.oft. 71 no.4:60-62 Jl-Ag '58 (MIRA 11:8)

1.1. (UME, neoplasms diag. value of radioisotopes, review (Rus))
(ISOTOPES, diag. of intraocular tumors, review (Rus))

SVEHDLOV, D.G., prof.; ANTONOV, A.I., inzh.

Tent screen attached to a bed for use in examining the bottom of the eye. Oft.zhur. 14 no.6:368-369 159. (MIRA 13:4)

1. Iz TSentral'nogo instituta travmatologii i ortopedii Minzdrava SSSR (direktor - deystvitel'nyy chlen AMN SSSR prof. N.N. Priorov).

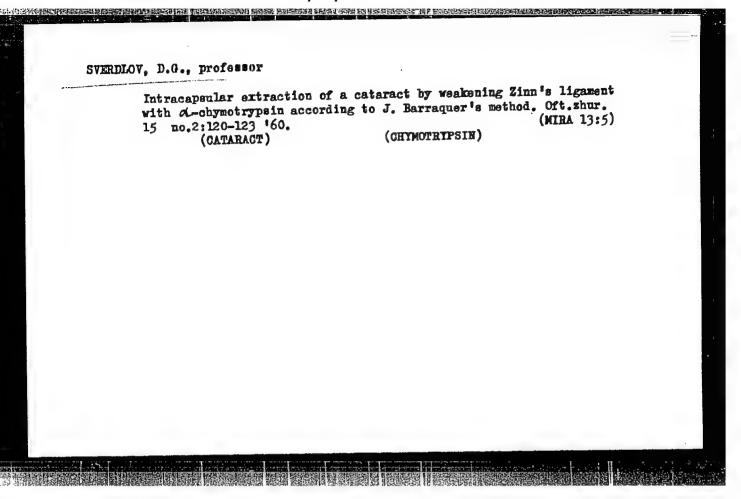
(EYE-EXAMINATION)

SVERDLOV, D.G., prof.

Ocular prosthesis. Med.sestra 18 no.2:24-26 F 59. (MIRA 12:2)

1. Zaveduyushchiy glazo-proteznym otdeleniyem TSentral'nogo instituta ortopedii i travmatologii, Moskva.

(EYES, ARTIFICIAL)



Use of ultrasonics in ophthalmology for diagnostic purposes; survey of the foreign literature. Oft.zhur. 16 no.6:373-378

61. (ULTRASONIC WAVES-THERAPEUTIC USE)

(MIRA 14:10)

(EYE DISEASES AND DEFECTS DIAGNOSIS)

\$/051/60/009/006/005/018 E201/E191

Sverdlov, D.M., Klochkovskiy, Yu.V., Kukina, V.S., and Mezhuyeva, T.D. AUTHORS:

Vibrational Spectra and Potential Energy Constants of TITLE:

Halogenated Ethylenes & Monochloroethylene, Monofluoroethylene, 1,1-dichloroethylene,

1,1-dibromoethylene and their Deuterated Derivatives

PERIODICAL: Optika i spektroskopiya, 1960, Vol.9, No.6, pp 728-733

Sverdlov, Klochkovskiy and Kukina (Ref.1) showed that TEXT: the vibrational spectra of halogenated ethylenes can be calculated using the force constants of ethylene (Ref.2) and halogenated methanes (Ref.3). The present paper extends this work to calculation of normal vibrations and potential energy constants of monochloroethylene and CH2==CDC1, 1,1-dichloroethylene, 1,1-dibromoethylene and CBr2==CHD, CBr2==CD2, monofluoroethylene and its seven deuterated derivatives whose formulae are given in the middle of page 728. For the purpose of this calculation the authors used the force constants of ethylene and halogenated methanes, as well as the force constants of halogenated ethylenes reported in the earlier paper (Ref.1). The calculations were Card 1/2

S/051/60/009/006/005/018 E201/E191

Vibrational Spectra and Potential Energy Constants of Halogenated Ethylenes. Monochloroethylene, Monofluoroethylene, 1,1-dichloroethylene, 1,1-dibromoethylene and their Deuterated Derivatives.

carried out by the method of Yel'yashevich and Stepanov (Ref.3).
Natural vibrational coordinates (Figs 1, 2) were used. Tables 1.4
give the calculated frequencies and interpretation of the
vibrational spectra of monofluoroethylene and its seven deuterated
derivatives (Table 1), of monochloroethylene and CH2=CDC1 (Table 2),
of 1,1-dibromoethylene and its two deuterated derivatives (Table 3),
and of 1,1-dichloroethylene (Table 4). The calculated and
experimentally observed frequencies agreed quite well. The published
interpretations of the vibrational spectra were either confirmed or
modified. Parameters of the force fields of the halogenated
ethylenes were calculated.
There are 2 figures, 4 tables and 18 references: 4 Soviet,
10 English, 1 German, 1 French, 1 international and 1 Japanese.

SUBMITTED: March 28, 1960

Card 2/2

New method for preparing dental crowns. Voen-med. zhur. no.1:76-78

(MLRA 10:5)

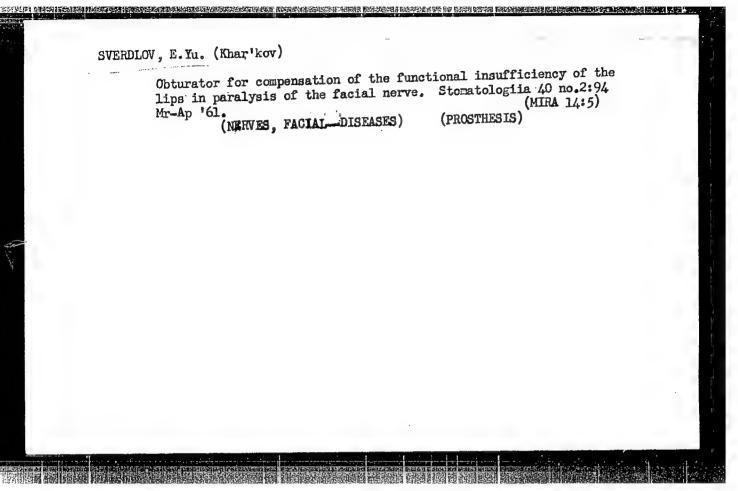
Ja '56

(CROWN AND BRIDGEWORK, preparation of) (Rus)

SVERDLOV, E.Yu. (Khar'kov)

Removable plastic prostheses reinforced with metal. Stomatologia (MIRA 14:11)

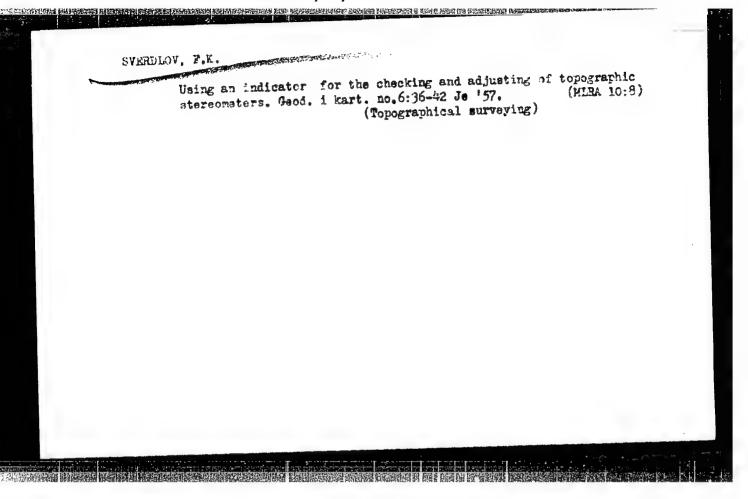
(TELTH, ARTIFICIAL)



SVERDLOV, F.K.

Concerning the accuracy of differential transformation on converted bundle instruments. Geod. i kart. no.11:15-22 N 1/4.

(MIRA 18:2)



KRASMCFCI'SKIY, A. S., SVERDLCY, G. M.

Europe, Eastern - Child Welfare

State protection of children in people's democracies. Pediatriia No. 3 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1958, Uncl.

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9.	. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassifie	

SVERDLOV, G.M.

"Recent Research in Applied Family Sociology in the Soviet Union,"

A paper presented at the fourth World Congress on Sociology, 8-15 September 59 Milan, Italy

so: 3,141,918

SVERDLOV, G.M.; KOVALETKO, B.M.

System of automatic information gathering from various flow meters for recording the consumption of oil using impulse code converters. Mash. 1 neft. obor. no.1832-36 64 (MIRA 1727)

1. Vsesoyuznyy nauchno-issledovatel skiy i proyektno-konstruktorskiy institut kompleksney avtomatizatsii neftyanoy i gazovoy promyshlennosti.

SVERDLOV, Gelyariy Maksimovich; YAGUDIN, Roshid Yusupovich; KOVALENKO; B.M., red.; LATUKHINA, Ye.I., ved. red.

[Systems and means for the automation of the technological processes of petroleum production] Sistemy i sredstva avtomatizatsii tekhnologicheskikh obmektov nefttedobychi. Moskva, Nedra, 1964. 157 p. (MIEA 18:1)

SVERDLOV, G. O.

"The Change in the Form of the Throat and the Dimensions of Its Cartilage After Birth." Cand Med Sci, Keningrad Pediatrics Medical Inst. Leningrad, 1955. (KL, No 12, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

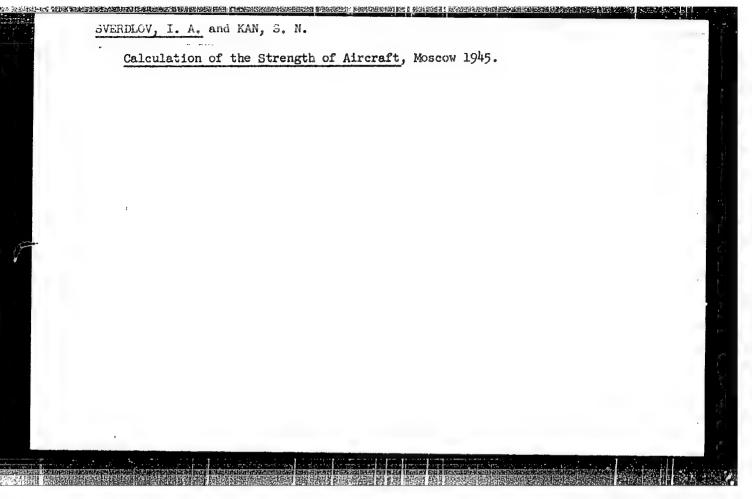
SVERDLOV, I. A.

O zamene metallicheskogo lista posadochnykh shchitkov polotnom. (Tekhnika vozdushnogo flota, 1943, no. 9, p. 18-19, diagrs.)

Title $\operatorname{tr.:}$ Substitution of Tabric covering for metal sheets of landing flaps.

TL504.Th 1943

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.



SVERDLOV, Iosif Abramovich -- awarded/degree of Doc Tech Sci for the 26 Jun 57 defense of dissertation: "Research on the force patterns of arrow-shaped and three-cornered wings" at the Council, Mil-Air trait Engr Acad imeni Zhukovskiy; Prot No 15, 7 Jun 58.

(BMVO, 11-58,27)

PHASE I BOOK EXPLOITATION

786

- Kan, Saveliy Nakhimovich and Sverdlov, Iosif Abramovich
- Raschet samoleta na prochnost! (Analysis of Aircraft for Structural Strength) 4th ed., rev. Moscow, Oborongiz, 1958. 291 p. 11,000 copies printed.
- Reviewers: Odinokov, Yu.G., Doctor of Physical and Mathematical Sciences, Professor, and Cheremukhin, A.M., Doctor of Technical Sciences, Professor; Ed.: Yarunin, A.M., Engineer; Ed. of Publishing House: Sheynfayn, L.I.; Tech. Ed.: Rozhin, V.P.: Managing Ed.: Sokolov, A.I., Engineer.
- PURPOSE: This book is approved by the Ministry of Higher Education of the USSR as a textbook for aviation vuzes. It may also serve as a drafting manual in design offices of aircraft factories, and as an aid in improving the qualifications of designers.
- COVERAGE: The 1945 edition of this book has been radically revised and greatly supplemented. Problems in determining aircraft loads and calculation methods for the separate aircraft components are considered. Completely new sections have been added on aerodynamic heating and thermal stresses, calculation of sweptback and delta wings and tail assemblies, calculation of frames with consideration of their elasticity, vibrations of aircraft components, etc. For

Card 1/7

SVERDIAM. I A.

Designing an aircraft for strength, by S. N. Kan and I. A. Sverdlov.

Wright-Patterson Air Force Pase, Ohio, 1960.

424 1. illus., diagrs., graphs (F-TS-9905/V)

Translated from the original Russian: Raschet samo-leta na prochnost*, Moscoe, 1958

Earlier Bussian language editions have title: Prochnost's samolets.

Pinilography: 1, 4-5

Eff(d)/Eff(n)/Eff(w)/FA/Eff(v)/T-2/Eff(k)/Eff(h)/EfA(h) L 58460-65 Peb W/EM ACCESSION NR: AP5012083 UR/0147/65/000/002/0034/0039 AUTHOR: Sverdlov, I. A. (Deceased 35 13 TITLE: Distribution of concentrated force along wing ribs SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 2, 1965, 34-39 TOPIC TAGS: aeronautical design, aircraft wing analysis, wing rib analysis, aircraft stress analysis ABSTRACT: The author considers different methods for calculating the concentrated forces which may be brought to bear on wing rips from various parts of the sircraft structure, including the landing year assembly engine installations, ailerons, etc. The effect of the installation of compression cibs at the points of application of these forces is then discussed. Various factors contributing to the loading and unloading of ribs under dynamic conditions are analyzed, and basic parameters permitting the solution of stress and unstressing problems are derived. Numerical factors are presented which reflect the degree to which increased or decreased stress may be anticipated in the event of the described conditions. It is pointed out in the article that it is possible to accept the concentrated forces applied to the wing without considerably strengthening the rib walls, for the reason that these forces are distributed over a large number of ribs. This fact is Cord 1/2

L 58h60-65
ACCESSION NR: AP5012083

particularly important in the case of heavy aircraft where hundreds of tons are transmitted to the wings from the larding gear. Orig. art. has: 7 figures and 24 formulas.

ASSOCIATION: None

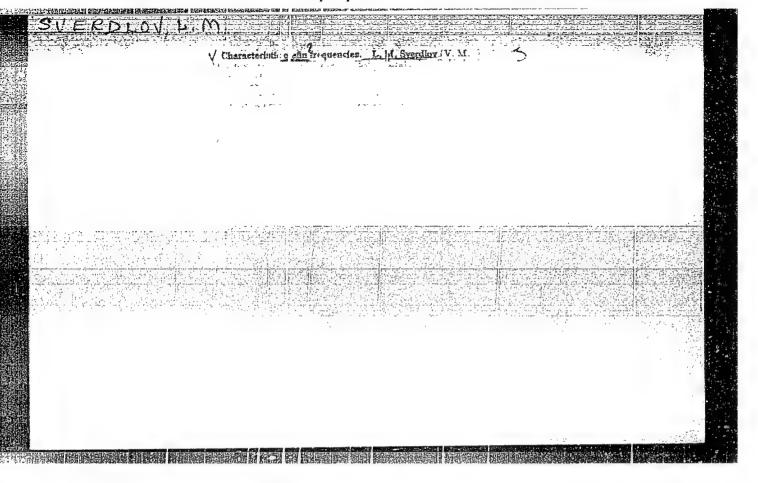
SUBMITTED: 05Jun63 ENCL: 00 SUB CODE: AC

NO REF SOV: 000 OTHER: 000

SVERDLOV, Iosif Yakovlevich, konstruktor; MANUALIA, A.M., red.

[Experimental housing construction in North Ossetia]

Kksperimental'tce zhilishchnoe stroitel'stwo v Severnoi
Osetii. Ordzhonikldze, Severo-Osetinskoe knizhnoe izdvo, 1964. 46 p. (MIRA 18:3)



CIA-RDP86-00513R001654120001-1 "APPROVED FOR RELEASE: 08/31/2001

AUTHOR:

Sverdlev, L. M., Engineer

SOV/28-59-1-23/29

TITLE:

The Committee of Standardization at the Scientific-Technical

Society

(Komitet standartizatsii pri nauchno-tekhnicheskom

obshchestve)

PERIODICAL:

Standartizatsiya, 1959, Nr 1, p 56 (USSR)

ABSTRACT:

In 1946, the Section of Standardization was organized at the Leningrad branch of the Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti(the Scientific-Technical Society of the Machine Building Industry). The organizers were the Candidate of Technical Sciences G. D. Pliner and Engineer V. V. Bekhterev. Since 1958, the section, transformed into a Committee, has been collaborating with the Otdel standartizatsii Leningradskogo Sovnarkhoza (the Leningrad Sovnarkhoz Standardization Department), Its director,

Krivosheyev, read two reports on the future task of

standardization in the 1959 - 1965 period.

Card 1/1

SVERDLOV, L. (Leningrad)

Standardization committee of the society. NTO no.7:43

Jy '59. (MIRA 12:11)

1. Chlen komiteta standartizatsii Leningradskogo oblastnogo pravleniya nauchno-tekhnicheskogo obshchevstva mashinostroitel'-noy promyshlennosti.

Standardization)

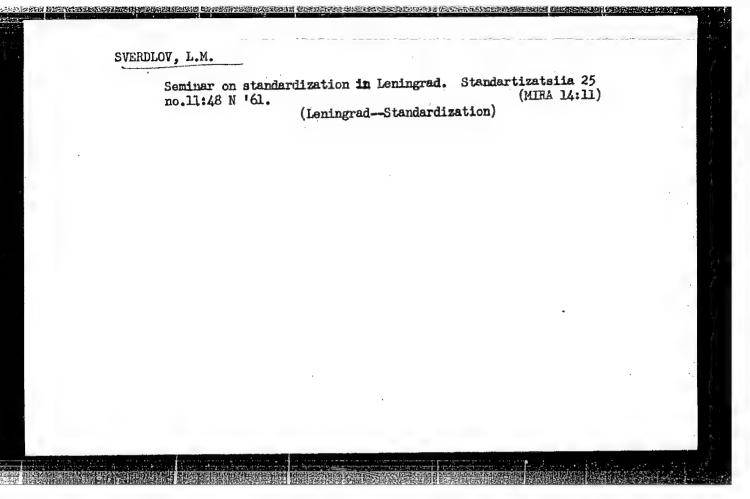
SYERDIOV, L.N., inzh.

Standardizatien Genmittee at the Scientific Technical Seciety of the Machinery Industry. Standartizatsiia 23 no.1:56 Ja '59.

(Standardization)

(Standardization)

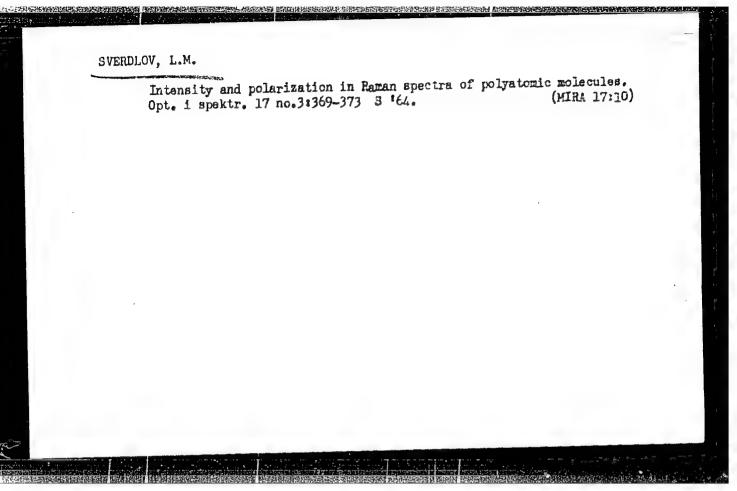
Seminar for workers in standardization. Standartizatsiia 24 no.9:43- 44 S '60. (MIRA 13:9) (Standardization)	
	,

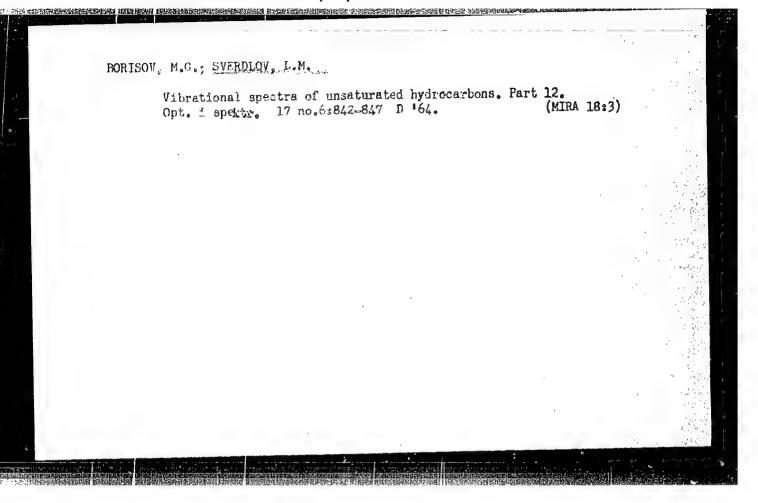


SyerDLOV, L. M.

Seminar on standardization in Leningrad. Standartizatsiia 26 (MIRA 15:10)

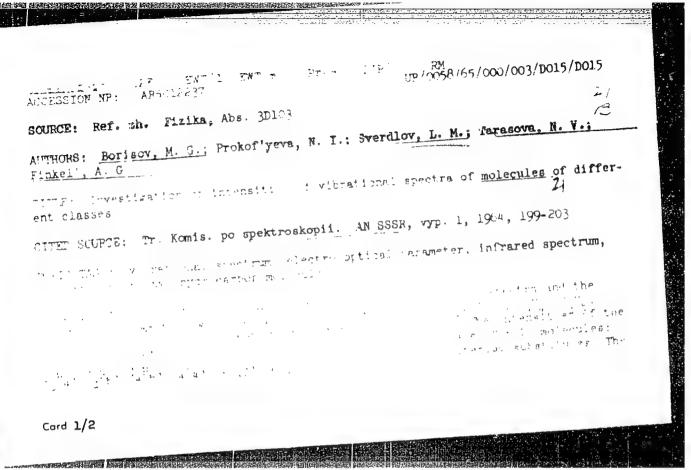
(Leningrad-Standardization-Study and teaching)





ILEGARO-65 EPF(c)/EPR/EN IJP(c)/RTL WW/RM ACCESSICH MR: AR5012234 SCURGE: Ref. zh. Fizika, A AUTHORS: Bolotina, E. M.; I KIZHNA, V. S.; Sverdlov, L. TITLE: Calculation and intervarious classes CITED SCURCE: Tr. Komis. p TOPIC TAGS: vibrational sp field, double bond TRANSLATION: A calculation terpretation is presented f butane, spiropentane, thiph C2014, C2D74, Fe2C-CHF, Cli- and certain isotopic substi-	capshtal', V. N.; K. M.; K. M.	un/0058/65/0 craynov, Ye. P.; Kl. rational spectra of AN SSSR, vyp. 1, 19 lecule, isotopic su ormal vibrations, 6 spectra of 25 mole cithyldiborane, trii is-trans-C.H.Fo: 0	molecules of betitute, force and a complete in- cules: cyclo- cycl		
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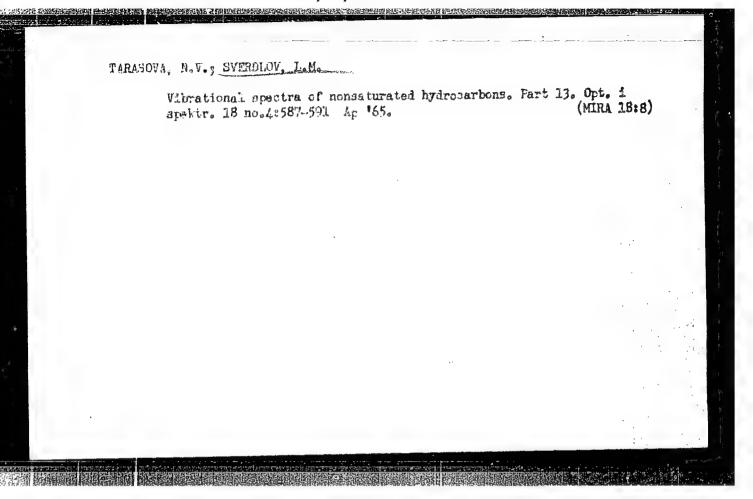
L 49778-65
ACCESSION KR: AR5012237

experimental data on the intensities, obtained by the authors, were used for the calculations.

SUB CODE: OP, OC ENCL: CO

Card 2/2

L 32769-56 ENT(1)/T LJP(c) ACC NR: AR6015180 SOURCE CODE: UR/0058/65/000/011/D014/D014	
AUTHOR: Sverdlov, L. M.	
TITLE: Some problems of the theory of intensity in Raman spectra and infrared absorption spectra of polyatomic molecules 2/	- 0
SOURCE: Ref. :: h. Fizika, Abs. 11D102	
REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 19-24	. 1
TOPIC TAGS: Raman spectrum, ir spectrum, absorption spectrum, complex molecule, molecular physics, line intensity	Ž.
ABSTRACT: General formulas are derived for the calculation of the intensities of the fundamental frequencies, overtones, and combination frequencies in Raman spectra and infrared absorption spectra of polyatomic molecules, in the first approximation of the generalized valence-optical theory, in which automatic account is taken of the condition for vanishing of the angular momentum. The principles of the theory of the characteristic nature of the integral intensities and polarizations of the lines of the Raman spectra of molecules are formulated. [Translation of abstract]	A State of the sta
SUB CODE: 20, 07	
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Card 1/1	



ACCEPTED NOTE: ALSO 11135

WINDOW S. Pontrow, M. G.; Pinkel', A.G.; Sverdlov, L. M.

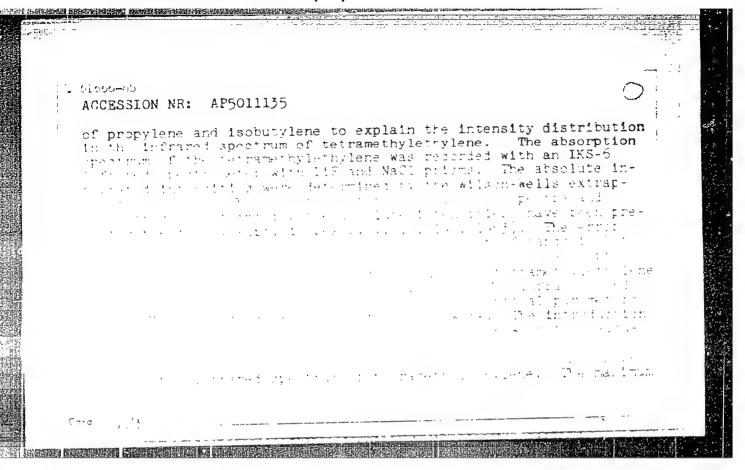
An experimental and theoretical investigation of investing of the infrared ope training graves.

The training of the infrared spectrum, olefin,

The TAIS: saw-us nvirocarbon, infrared spectrum, olefin,

Specially in the situation of the infrared tands of propylene and the stalling investigation of the infrared tands of propylene and the stalling investigation of the infrared tands of propylene and the stalling investigation was to measure the absolute intensities of the infrared tands of gaseous tetrame three-table pand to verify the use of the electro-optical parameters of the metal group

Card 1/3



relative error is 15 per cent, which is only slightly higher than the passuring the intensities. It is thus concluded that the passuring the intensities of the CE, group of propylene and the passure of the CE, group of the CE, group of propylene and the passure of the CE, group of the CE, grou

1705-66 EVT(m)/	EPF(c)/EXP(j)/T RM	· · · · · · · · · · · · · · · · · · ·
ACCESSION NR: AP5	012638 برایات G.; Tarasova, N. V.; Sverdl	UR/0051/65/018/005/0928/0930 535.343 = 15.4 Lov, L. M. 44,65
TITLE: Experimental infrared spectra of	l and theoretical investigating hydrocarbons in the gas phase	on of absolute intensities in the se. III. 1,3-butadiene
OPIC TAGS: IR spec	pektroskopiya, v. 18, no. 5, etrum, butadiene, deuterium con, electrooptic effect, abs	compound. line intensity, conjugated
DSTRACT: This is a 95, 1963 ff) of the present work is rared bands of transcrinental data obtational properties of a determine the eff k,3-butadiene was Br prisms. The Wil	continuation of earlier invertified bands of certain meta- devoted to a measurement of us-1,3-butadiene, and to a callined, of a set of electro-op the bonds in dienes with confect of conjugation on bond procedures with an infrared second-Wells extrapolation meth	restigations (Opt. i spektr. v. 15, aphthenic and olefinic hydrocarbons. the absolute intensities of the inculation, on the basis of the extical parameters characterizing the jugated C=C double bonds, in order olarity. The absorption spectrum pectrometer using LiF, NaCl, and od (J. Chem. Phys. v. 14, 578, ties of the absorption bands. The
ord 1/2		

L 1705-66

ACCESSION NR: AP5012638

experiment is briefly described. A table is presented of the absolute intensities of the infrared bands of trans-1,3-butadiene and C₄D₈. The results show that the C=C double bond to the ends of which different functional groups are attached, is characterized by considerable polarity. The table lists also the calculated intensities of the infrared spectra of trans-1,3-hexadeuterobutadiene, calculated from the electro-optical parameters in this work. The calculation correctly accounts for the intensities of the IR bands at 2335, 2210, 1523, and 718 cm⁻¹ and the medium intensity of the 2270 and 380 cm⁻¹ bands. The intensities calculated for the bands in the 1000--1050 region are apparently too low. Orig. art. has: 1 formula and 1 table.

ASSOCIATION: none

SUBMITTED: 25Apr64

ENCL: 00

SUB CODE: OF

NR REF SOV:

OTHER:

Card 2/2 DP

STAL'MAKHOVA, I.P.; FINKEL', A.G.; SVERDLOV, L.M.

Experimental and theoretical study of the absolute intensities of infrared spectra of hydrocarbons in the gaseous phase. Part 5.

Propane. Opt. i spektr. 18 no.6:1083-1086 Je '65.

(MIRA 18:12)

FINKEL', A.G.; BORTSOV, M.G.; SVERDLOV, L.M.

Experimental and theoretical study of the absolute intensities of infrared spectra of hydrocarbons in the gaseous phase. Part 2.

Opt. i spektr. 19 no.1265-70 Jl '65. (MIRA 18:8)

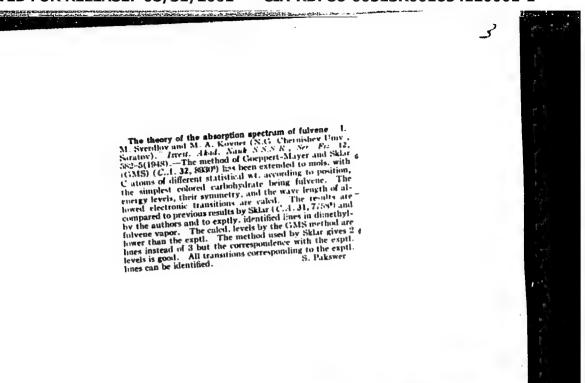
KLOCHKOVSKIY, Yu.V.; KUKINA, V.S.; SVERDLOV, L.M.

Vibrational spectra and constants of the potential energy of tetrafluoroethylene, tetrachloroethylene, tetrabromoethylene, trifluoroethylene, 1,1-difluorochloroethylene, 1-fluoro-1-chloroethylene, cis- and trans-dibromoethylene and their deuterium-substituted derivatives. Zhur. fiz. khim. 39 no.8:1912-1921 Ag 165. (MIRA 18:9)

1. Saratovskiy politekhnicheskiy institut.

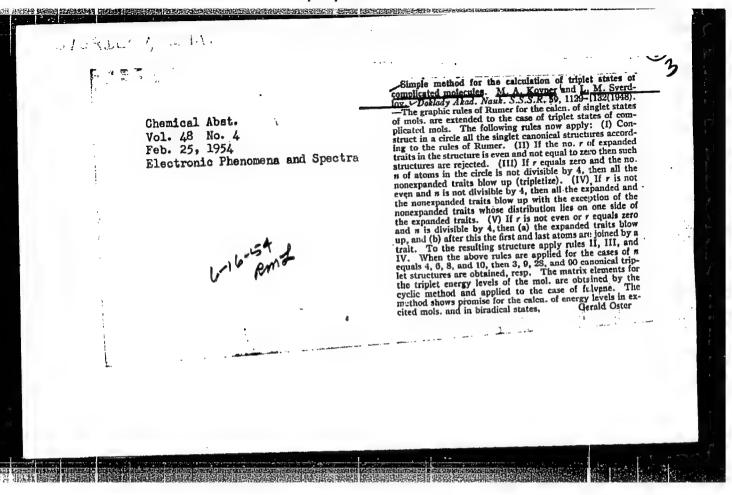
Calculation and indeppretation of the vibration of discourse anaponate. Firt 2. Inor. 812. kbir. 39 re-201259-2019 C 165.

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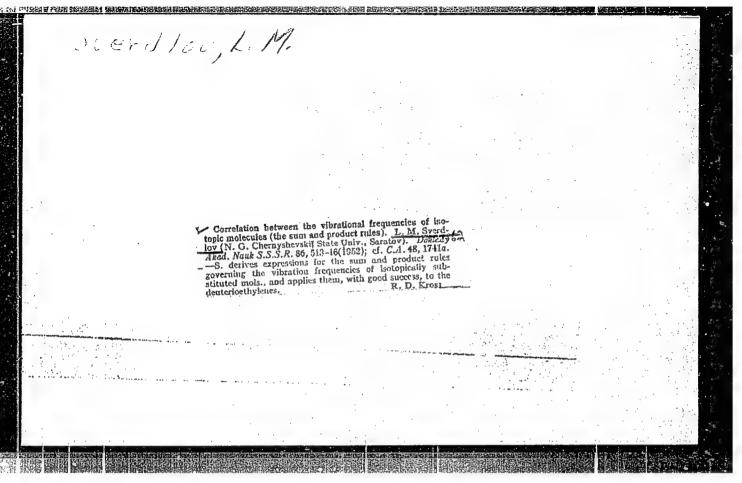
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USSR/Physical Collegions and Examo of mols and energy; I Sverdlov USSR/Physical Collegions and energy; I Sverdlov Submitte Submitte	SVERDLOV, L. M.	-				184T108	
ysics - Thermodynemics, Isotopic Molecules on Among the Frequencies of Isotopic Molecules The Rule of Sums)," L. M. Sverdlov, Sarate U imeni N. G. Chernyshevskiy Mauk SSSR" Vol LXXVIII, No 6, pp 1115- f isotopic effect in oscillatory spectrafacilitates their interpretation and ddnl egs for detn of consts of potential hence the interest in subject frequency. v derives new relation among subject lisotopic Molecules (Contd) ysics - Thermodynamics, Isotopic Molecules (Contd) ysiler and Redlich under the name of by Teller and Redlich under the name duct rule" (cf. "ZS Fhys Chem" 28, 371, Swerdlov was assisted by M. A. Kovner. ed 25 Apr 51 by Acad V. A. Fok. 184T108		(conva) equencies, to be added to other relation olished by Teller and Redlich under the "product rule" (cf. "ZS Phys Chem" 28, 35). Sverdlov was assisted by M. A. Ko omitted 25 Apr 51 by Acad V. A. Fok.	derives new relation among subjection of the sub	n of isotopic effect in oscillatorols facilitates their interpretations addnl eqs for deth of consts of gy; hence the interest in subject	tion Among the Frequencies of Isotopics (The Rule of Sums)," L. M. Sverdlov, state U imeni N. G. Chernyshevskiy Ak Nauk SSSR" Vol LXXVIII, No 6, pp 11	21 Jun	The second of th



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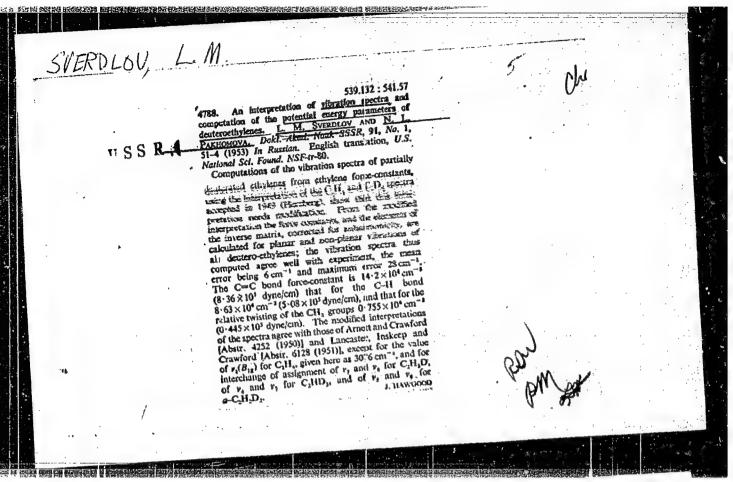
- 2. USSR (600)
- 4. Molecular Dynamics
- 7. Connection between moments of inertia and rotatory frequencies of isotopic molecules.

 Dokl AN SSSR No 2 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

		STATE OF
SVERDLOV, L. M.	USSR/Physics - Molecular Spectra of Molecules "Computations of Oscillatory Spectra of Molecules "Computations of Oscillatory Spectra of Molecules tive Characteristics," I. M. Sverdlov; Saratov The oscillatory spectra are calculated by method of M. V. Volkenshteyn; M. A. Yel'yashevich; B. I. of M. V. Volkenshteyn; M. A. Yel'yashevich; B. I. Stepanov (Kolebaniya Molekul (Oscillations of of M. V. Volkenshteyn; M. S. Mayants (Dissertation, Stepanov (Kolebaniya Molekul (Oscillations of of M. V. Volkenshteyn; J. S. Mayants (Dissertation, Stepanov (Kolebaniya Molekul (Oscillations of of M. V. Volkenshteyn; J. J. J. Trudy FlAN, V. V (1950)) for compds contg car- molecules 1949) and I. S. Mayants (Dissertation, Stepanov (Kolebaniya Molekul (Oscillations of of M. V. Volkenshteyn; J. J. J. Trudy FlAN, V. V (1950)) for compds contg car- molecules 1949) and I. S. Mayants (Dissertation) Stepanov (Kolebaniya Molekul (Oscillations of of M. V. Volkenshteyniya Molekul (Oscillations of of Molekul (Molekul	The state of the s

PA ZUYIZO SVERDLOV, L. M. 11 Jan 53 USSR/Physics - Molecular Frequencies "Relations Among Moments of Inertia and Rotational Frequencies of Isotopic Molecules," L. M. Sverdlov, Saratov State U DAN SSSR, Vol 88, No 2, pp 249-252 Discusses the use of isotope substitution in measuring molecular quantities that depend only upon mass, such as frequency oscillations, moment of inertia, rotational freq, etc. Derives general formulas and identities involving such quantities. Applies them to org compds of isotopic H,N, and halogens. Presented by Acad G.S.Landsberg 249T20 10 Nov 52.



SVERDLOV, L. M.

21 Jul 53

USSN/Physics - Sprectra, Oscillatory

"Computation and Interpretation of Oscillatory Spectra of Formic Acid (Monomer) ami Its Deuterium Substitutes," L. M. Sverdlov, Saratov State U im N. G. Chernyshevskiy

DAN SSSR, Vol 91, No 3, PP 503-505

Analyzing ell aveitable expt! data, attempts to interpret spectra and to compute frequencies of formic acid by method of M. Yel'yashevich and B. Stepanov (see "Kolebaniya Molekul" (Oscillations of Molicules), 1949). Finds that his computations confirm interpretation of oscillatory spectra and that the dynamic coeffs represent the potential mol field of formic acid. Presented by Acad G. S. Landsberg 22 May 53.

262T82

B. T. R. Vol. 3 No. 4 Apr. 1954 Chemistry-Physical	1632° Calculation and Interpretation of Vibration Spectrams of the Dimer of Formic Acid and Its Deuteron Substitutes. (Russian) La. M. Svendov. Doklady Akademi Nauk SSSR, v. 83, no. 2, Nov. 17, 1853, p. 245-248. Rasults of calculated and observed frequencies showed good agreement. Table. 10 ref.
Chemistry-rny 52-5	12

SVERDLOV, I.M. Interrelation between the anharmonic ratio constants and the frequencies of isotopic molecules. Dokl.AM SSSR 94 no.3:451-454 (MLRA 7:1) Ja '53. 1. Saratovskiy gosudarstvennyy universitet im, N.G.Chernyshevskogo. Predstavleno akademikom G.S.Landabergom. (Spectrum analysis) (Isotopes)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001654120001-1

FD 400

SVERDLOV, L. M.

USSR/Physics - Oscillatory spectra of ethylene

Card 1/1

Author

: Sverdlov, L. M., and Pakhomova, N. L.

Title

: Oscillatory spectra and potential energy constants of ethylene and its

deuterium substitutions

Periodical

: Zhur. eksp. i teor. fiz. 26, 64-78, Jan 1954

Abstract

: On the basis of the new interpretation of the oscillatory spectra of C_2H_4 and C_2D_4 the author computes the potential energy constants of the ethylene molecule. Also calculates the frequencies and forms of the normal oscillations of all the deuterium ethylenes. Demonstrates the faultiness of the interpretation of Gallaway and Barker, as followed by M. V. Vol'kenshteyn, M. A. Yel'yashevich, B. I. Stepanov, and G. Gertsberg. Establishes a new theoretical basis of interpretation. Employs the Mayants method of iteration for the calculation of frequency

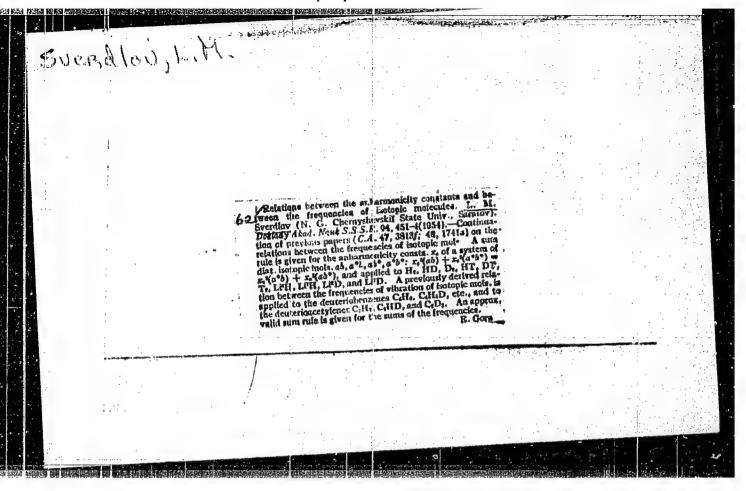
and form of normal oscillations.

Institution

: Saratov State University

Submitted

: July 6, 1953



CIA-RDP86-00513R001654120001-1 "APPROVED FOR RELEASE: 08/31/2001

SYERDLOY, L.M.

USSR/Physics - Spectral analysis

Card 1/1

Pub. 43 - 14/62

Authors

Sverdlov, L. M., and Zaytseva, I. N.

Title

Oscillation spectra and the structure of diborans

Periodical.

12v. All SSSR. Ser. fiz. 18/6, page 672, Nov-Dec 1954

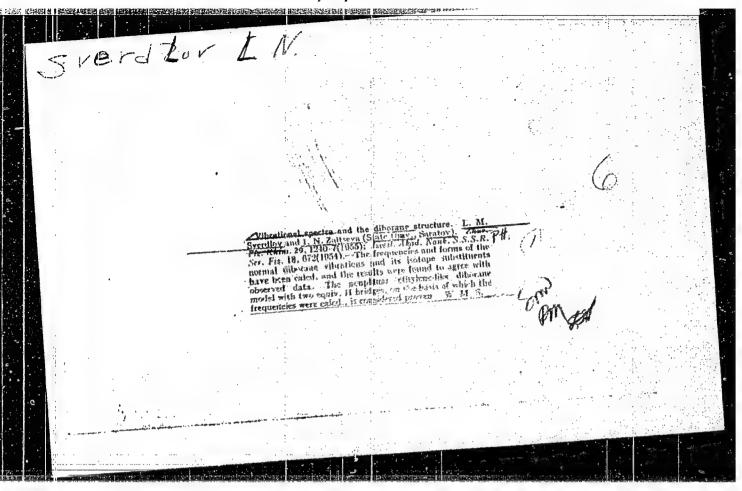
Abstract

Data are presented on the calculation of normal escillations and potential energy constants of diborane accomplished with the aid of the M. Elyashevich method. Eighteen normal oscillations were observed in the case of diborane. The geometrical parameters utilized in the calculation of the kinematic coefficients are listed. The power coefficients were determined by the constant variation method. An interpretation of oscillation spectra for diborane and its isotope-substitutes is included. Table.

Institution:

The N. G. Chernishevskiy State University, Saratov

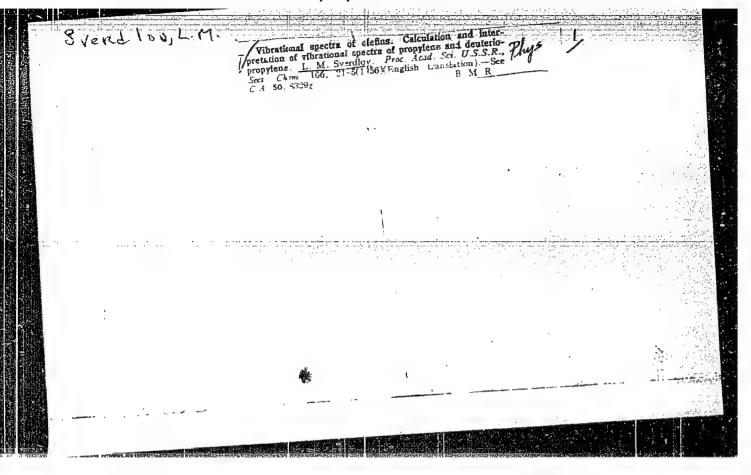
Submitted



SUGROLOV, L.M. USER/ Physics - Chemistry Pub. 22 - 12/50 Sverdlov, L. M., and Vinokhodova, O. N. Cand 1/1 Computation and interpretation of the oscillating spectra of isobutylene Au thors Title DOK. AN SSSR 100/1, 45-48, Jan. 1, 1955 Some methods (variations of constants) and mathematical parameters [r(C-H) = 1.071Å (for the (H2 group)] etc., which were used in computions and interpretations of constants Periodical interpretations of oscillating spectra of isobutylens are described and discussed. Eight references: 2 USA and 6 USSR (1947-1954). Tables; disgram. Abstract The N. G. Chenyshevskiy Saratov State University Academician Lindberg, G. S. September 6, 1954 Institutions Presented by:

CIA-RDP86-00513R001654120001-1

"APPROVED FOR RELEASE: 08/31/2001 5-4 SYERDLOY, L-M. Chemical Bond USSR / Physical Chemistry. Molecules. : Ref Zhur - Khimiya, No 8, 1957, 25773 Oscillating Spectra of Olefins. III. Computation and Inter-Abs Jour pretation of Oscillating Spectra of Cis-Butene-2 and Trans-, L.M. Sverdlov Author Butene-2 and Tetramethylethylene. ritle . Optika i spektroskopiya, 1956, No 6, 752-764. of cis-butane=2, trans-butene=2 and tetra-Orig Pub methylethylene belong to the symmetry group C24, 2h, Vh and respectively possess 50, 50 and 48 fundamental frequencies, : The molecules a complete computation of which was carried out. All secu-Abstract lar equations were worked out and solved. On the basis of the computation, it was proposed to refer the fundamental free quencies to the concepts of symmetry groups and to the vibrations of separate structural elements of molecules. The computed frequencies and their relationship were compared with data of combined scattering spectra and infra-red spectra and : 1/2 Card



Sverdlov, L.M. USSR/ Chemistry - Analytical chemistry Pub. 22 - 21/43 Card 1/2 Syerdlov, L. M. Oscillation spectra of olefines. Calculation and interpretation of Juthors oscillation spectra of propylene and deuteropropylene Title Dok. AN SSSR 106/1, 80-83, Jan 1, 1956 The oscillation spectra of a propylene molecule, which is a simple repre-Periodical : sentative of ethylene alkyl substitutes, were calculated and interpreted for the purpose of obtaining characteristic data of the oscillation spectra for the homologous RHC = CH₂ series. It was established that this molecule at its best can have only one plane of symmetry. Of the twenty-one normal oscillations observed fourteen were found to be symmetrical Abstract Saratov State University im. N. G. Chernishevskiy Institution: Academician G. S. Landsberg, June 30, 1955 Presented by:

Pub. 22 - 21/43 Card 2/2

Dok. AN SSSR 106-1, 80-83, Jan 1, 1956 Periodical :

and seven antisymmetrical in relation to the plane of symmetry. All the oscillations were observed to be active in combined and in infrared spectra. The conformity between the calculated and observed frequencies Abstract : was as satisfactory. Twelve references: 5 USA, 5 USSR, 1 Indian and 1

Germ. (1935-1955). Tables; diagram.

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SVERDLOV, L.M.	PRIKHOT'KO, A.F.			
The second	24(7) p 3 PHASE I BOOK EXPLOITATION SOV/1365			
a ped 1 - distances	Materialy I Vesscyumogo soveahchaniya po spektroskopii. t Kolakulyarnaya spektroskopiya (Papers of the 10th All-Un Conference on Spectroscopy. Vol. 1: Molecular Spectrosc [L'vov] Izd-vo L'vovakogo univ-ta, 1957. 499 p. 4,000 o printed. (Series: Its: Fizychnyy zbirnyk, vyp. 3/8/)	nion copy)		
	Additional Sponsoring Igency: Akademiya nauk SSSR. Komiss spektroskopii. Ed.: Jazer, S.L.; Teoh. Ed.: Saranyuk, T Editorial Board: Landsberg, G.S., Academician (Resp. Ed. Neporent, B.S., Doctor of Physical and Mathematical Soir Fabelinakiy, I.L., Doctor of Physical and Mathematical Soir Fabrikars, V.A. Doctor of Physical and Mathematical Soir Kornitakis, V.C., Candidate of Technical Sciences, Rayak Candidate of Physical and Mathematical Sciences, Klimova Candidate of Physical and Mathematical Sciences, Miliyan Candidate of Physical and Mathematical Sciences, Miliyan Candidate of Physical and Mathematical Sciences, Miliyan Candidate of Physical and Mathematical Sciences.	lya po LV.; , Deceased), nciences, ences, ily, S.M., kiy, L.K., chuk, V.S.,		
7	Card 1/30	·		
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	Sverdicv, L.M. Calculation and Interpretation of the Vibrational Spectra of Olefins	278	•	
	Syerilov, Lake. and Ye. P. Kraynov. Vibrational Spectra and Potential Energy Constants of Cyclo- propane and Deuterocyclopropane	282		
	Gorban', I.S., and A.A. Shishloyskiy. The Anomalous Dispersion of Light in Diluted Solutions	286		
	Labchenko, A.F. Light Dispersion in the Absorption Range of Ispurity Centers	289		
	Yakovley, G.N., D.S. Gorbenko-Germanov, R.A. Zenkova et al. Study of Binary Americium Sulfates Using Absorption Spectra in Crystals	292		
	Vorobyeva, M.A. Birefringence of Some Organic Crystels With A Long-chain Molecular Structure Card 19/30	297		
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		The second second		

51-4-24/25

Vibrational spectra and potential energy constants of allene and tetradeuteroallene. (Cont.)

C - H = 1.07 Å, $\angle HCH = 117^{\circ}$. The potential energy has 31 force coefficients which form 23 linearly independent combinations. 12 coefficients were assumed to be zero, and from the rest 15 independent combinations, leading to 22 frequencies, were formed. Results for allene and tetradeuteroallene given in two tables show good agreement between experiment and calculation (mean error of 9 cm⁻¹, maximum error of 17 cm⁻¹ for 300 to 3000 cm⁻¹). Coefficients of induction were also calculated and compared with those for ethylene. From this comparison it follows, inter alia, that the C = C bond in allene is about 7% stronger than the corresponding bond in ethylene, but the C = C = C angle in allene is about twice as weak as the angles C-C-C and C-C=C in paraffins and olefins. There are 1 figure; 2 tables; 8 references (4 of which are Slavic).

ASSOCIATION: Saratov Road Institute (Saratovskiy avtodorozhiyy Institut)

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Card 2/2

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AUTHORS:

Sverdlov, L. M. and Kraynov, Ya. P. Vibrational Spectra

TITLE:

of Naphthenes. (Raschet i interpretatsiya kolebatelinykh spektrov naftenov.) I. Cyclopropane and hexadeuterocyclopropane. (I. Tsiklopropan i geksadeyterotsiklo-

PERIODICAL: Optika i Spektroskopiya, 1957, Vol.III, Nr.1, pp.54-60.

Baker and Lord (Ref. 3) give interpretation of cyclopropane

ABSTRACT:

spectrum by analysis of the band types, their intensities and degree of polarization of infrared absorption and Raman scattering of molecules C3H6 and C3D6. The authors use this interpretation as their starting point. Frequencies and forms of the normal vibrations of molecules of cyclopropane and hexadeuterocyclopropane are calculated using the method described in Ref. 5. results of these calculations are given in Tables 3 and 4. The potential energy constants of cyclopropane (force constants in Table 2 and induction coefficients in Table 5)

Card 1/2

SVERDLOV, L.M.; KLOCHKOVSKIY, Yu.V.; KUKINA, V.S.

Vibration spectra and potential energy constants of halogen derivatives of ethylene [with summary in English]. Insh.-fis. shur. no.12:43-53 ' 58. (MIRA 11:12)

1. Avtodoroshnyy institut, g. Saratov i Vsesoyusnyy avtodoroshnyy zaochnyy institut, g. Saratov. (Ethylene--Spectra)